Curriculum Vitae for Kensuke Okada
Bldg.510A Brookhaven National Laboratory Upton, NY 11973
Phone: 631-344-5969 (office)
okada@bnl.gov

Education:

Ph.D., Nagoya University, 2001.
M.A., Nagoya University, 1995.
B.S., Nagoya University, 1993.

Research experience:

April 2006-present. **Research Fellow, RIKEN-BNL Research Center, PHENIX**

Group leader: Dr. Yasuyuki Akiba. Measured double helicity spin asymmetry of direct photon with a Ph.D student. Led the coordination of data taking in p+p collision data and the effort of EMCal energy calibration. Co-chairing a task force of the first W-boson measurement at RHIC. Maintained the PHENIX central arm trigger system.

April 2003-March 2006. **Postdoctoral Research Associate, RIKEN-BNL Research Center, PHENIX**

Group leader: Dr. Gerry Bunce. Studied on direct photon cross section measurement. Established a new standard method and firstly applied an isolation cut method. Led the effort to combine two independent analyses. Published Phys.Rev.Lett.98:012002,2007. Maintained the PHENIX central arm trigger system.

June 2001-March 2003. **Contract Researcher, RIKEN, PHENIX**

Group leader: Dr. Hideto En'yo. Worked on PHENIX central arm trigger system (EMCal and RICH). Installation in 2002. Based on 2002 study, developed a system to adjust the trigger valance and the quality control. Applied the new scheme in 2003 run. Analyzed charged hadron cross section and transverse spin asymmetry. It limits the gluon Sivers effect. Published Phys.Rev.Lett. 95:202001,2005.

April 1995-May 2001. **Graduate Student, DONUT**

Thesis advisor: Prof. Kimio Niwa. The experiment confirmed tau lepton production from tau neutrino interaction with nuclear emulsion films. Monitored background and helped to build the beam line. Built the scintillation fiber tracker system (design, production, installation, operation, calibration and reconstruction). Constructed nuclear emulsion module (steel/film

sandwich). Established the analysis using automatic scanning system (method and quality control). Published Phys. Lett. B513:23-29, 2001.

Teaching Experience:

Mentor:

Kenichi Karatsu ("Production cross section and Parity violating asymmetry of W bosons in p+p collisions at sqrt{s}=500GeV", Ph.D thesis at Kyoto University, to be submitted. 2011.)

Robert Bennett ("Longitudinal Double spin asymmetry of Photon Production in Polarized Protons at 200 GeV", Ph.D thesis at Dept. Physics & Astronomy, Stony Brook University, 2009)

Kohichi Sakashita ("Prompt photon production in polarized proton-proton collision at PHENIX", Ph.D. thesis at Tokyo Institute of Technology, 2009)

Takuma Horaguchi ("Prompt photon production in proton-proton collisions at sqrt{s}=200geV", Ph.D. thesis at Tokyo Institute of Technology, 2006)

Teaching assistant, 1997:

Pre-seminar for the first grade students at Nagoya University.

Other Experiences:

Co-convener, W boson working group 2008-2010

Co-convener, PHENIX Spin Working Group, January 2008-2010

Spin run coordinator (Run8, 2008)

Co-organizer, RHIC-AGS Users' meeting (Longitudinal spin session), 2009

Co-organizer, PHENIX Spinfest, 2007, 2008, 2009

Co-organize, The Physics of W and Z Bosons (RBRC workshop) 2010

Selected Presentations:

"Measurement of Longitudinal Spin Asymmetries From $W^{\pm}$ Boson Decay in Polarized pp Collisions at $\sqrt{s}=500$ GeV at RHIC-PHENIX" (Spin2010, Julich, Germany October 1)

"Observation of W decay in 500GeV p+p collisions at PHENIX" (Lake Louise Winter Institute, Alberta, Canada, February 14-20, 2010)

"RHIC-spin program for the next several years" (DNP/JPS Joint Fall Meeting Waikoloa, Hawaii, October 13-17, 2009)

"Studying the spin structure of the proton at PHENIX" (Circum-Pan-Pacific Symposium, Yamagata, Japan September 15-18,2009)

"Measurements of proton spin structure at RHIC-PHENIX" (Winter Workshop on Nuclear Dynamics, Big Sky, Montana, February 1-8,2009)

"PHENIX EM Probes" (Hard Probes at A Toxa, Galicia,Spain June 8-14,2008)
"Study of proton helicity structure in polarized p+p collisions at RHIC" (JPS at Sapporo September 22,2007)
"Study of proton helicity structure in polarized p+p collisions at PHENIX" (DIS at Munich April 17,2007)

Selected Publications:

"Cross Section and Parity Violating Spin Asymmetries of W^+/- Boson Production in Polarized p+p Collisions at sqrt(s)=500 GeV"
hep-ex/1009.0505, submitted to Phys.Rev.Lett.
"Measurement of direct photon production in p + p collisions at s(1/2) = 200-GeV"**
Phys.Rev.Lett.98:012002,2007. hep-ex/0609031
"Improved measurement of double helicity asymmetry in inclusive midrapidity pi0 production for polarized p+p collisions at s(1/2) = 200-GeV"**
Phys.Rev.D73:091102,2006. hep-ex/0602004
"Measurement of transverse single-spin asymmetries for mid-rapidity production of neutral pions and charged hadrons in polarized p+p collisions at s(1/2) = 200-GeV"**
Phys.Rev.Lett.95:202001,2005, hep-ex/0507073
"Double helicity asymmetry in inclusive mid-rapidity pi0 production for polarized p + p collisions at s(1/2) = 200-GeV"**
Phys.Rev.Lett.93:202002,2004, hep-ex/0404027
"Mid-rapidity neutral pion production in proton proton collisions at s(1/2) = 200-GeV."**
Phys.Rev.Lett.91:241803,2003, hep-ex/0304038
"Observation of tau neutrino interactions"
Phys.Lett.B504:218-224,2001, hep-ex/0012035